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Education

Ph.D. Analytical Chemistry, Birjand university, Iran,2015
M.Sc. Analytical Chemistry,Tabriz University, Iran,2007

Employment

Assistant Professor of Department of Food Safety and quality control,
Research Institute of Food Science & Technology, Mashhad, Iran

Research Interests

Fabrication of portable nanobiosensor.
Detection of chemical and biological contaminate in food samples using biosensor.
Application of chemometric méthodes in food quality control.
Application of sensor and biosensor in smart food packaging
Enzyme extraction and inhibition study .

Research Projects

1-Fabrication of Laccase enzymatic biosensor based on Fe₃O₄/Graphen Oxide/Chitosan nanocomposite for determination of tartrazine (TZ) in soft drinks.(Iran National science Foundation)

2-Fabrication paper nanosensor for detection of azo dyes in saffron

3-The Development of Thermochromic Electrospun Nanofibres for Monitoring of Temperature, Prize winner of The Third World Academy of Sciences (TWAS) , 2016.

4-Preparation of carboxymethyl cellulose based strings to stabilize and reduce the consumption of saffron in the saffron rock candy.

5- Design and fabrication of a crystal-liquid aptasensor for detection of PCB77.

6- Process control and optimization for crystallization of sucrose substitutes for the production of reduced calorie rock candy.

7- Stabilization of anthocyanin extracted from saffron petals by copigmentation method in food model.

8- Extraction and purification of berberine from barberry waste and use in food model(Ice cream)

Peer Reviewed Articles

1- *A novel spectrophotometric method for determination of kinetic constants of aldehyde oxidase using multivariate calibration method* , Mohammad-Hossein Sorouraddin, **Ebrahim Fooladi**, Abdolhossein Naseri, Mohammad-Reza Rashidi. *Journal of Biochemical and Biophysical Methods* 70(2008)999-1005.

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2- *Development of a Sensitive Spectrofluorometric-Multivariate Calibration Method for Enzyme Kinetic of Aldehyde Oxidase* , Mohammad Hossein Sorouraddin, **Ebrahim Fooladi**, Abdolhossein Naseri, Mohammad-Reza Rashidi. *Iranian journal of pharmaceutical research*, 8(2009) 169-177.

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3- *A Nanocomposite/Crude Extract Enzyme based Xanthine Biosensor*. Susan Sadeghi, **Ebrahim Fooladi**, Mohammad Malekaneh. *Analytical Biochemistry*, 464(2014) 51-59.

4- *A New Amperometric Biosensor Based on Fe₃O₄/Polyaniline/Laccase/Chitosan Biocomposite-Modified Carbon Paste*

Electrode for Determination of Catechol in Tea Leaves. Susan Sadeghi, **Ebrahim Fooladi**, Mohammad Malekaneh , *Applied Biochemistry and Biotechnology*, 175(2014)180-6.

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5- *A New Amperometric Benzaldehyde Biosensor Based on Aldehyde Oxidase Immobilized on Fe₃O₄-GrapheneOxide/Polyvinylpyrrolidone/Polyaniline Nanocomposite.* Susan Sadeghi, **Ebrahim Fooladi**, Mohammad Malekaneh *Electroanalysis*, 27(2015) 242-252 .

6- *The effect of solvents on Formaldehyde adsorption performance on pristine and Pd doped on single-walled carbon nanotube using density functional theory,* M Yoosefian, A Mola, E Fooladi, S Ahmadzadeh, *Journal of Molecular Liquids*, 225(2017) 34–41.

7-Recent progress in the development of recognition bioelements for polychlorinated biphenyls detection: Antibodies and aptamers. A Verdian, **E. Fooladi**, Z Rouhbakhsh *Talanta*,202(2019)123

8-Aptasensors as promising new tools in Bisphenol A detection-An invisible pollution in food and environment. SH Rajabnejad, HB Bostan, A Verdian, GR Karimi, **E. Fooladi**, J Fyzi , *Microchemical Journal*, 104722,2020

9-Application of carboxylic acid-functionalized of graphene oxide for electrochemical simultaneous determination of tryptophan and tyrosine in milk

Ebrahim Fooladi, BiBi Marzieh Razavizadeh. saeid Kakooei ,SN Applied Sciences

10-The Simultaneous Spectrophotometric Determination of Acetaminophen, Celecoxib, Diazepam, and Famotidine in Environmental **Samples** by Partial Least Squares, *Chemical*

S. Ariavand, M. Ebrahimi, **E. Fooladi** 2, *Methodologies* 5(2021) 70-81

11- *An ultrasensitive platform for PCB77 detection: New strategy for liquid crystal-based aptasensor fabrication*

A.Verdian, Z.Rouhbakhsh, **E.Fooladi**, *Journal of Hazardous Materials*, 402(2021) 123531.

12- Simultaneous spectrophotometric determination of the residual of ciprofloxacin, famotidine, and tramadol using magnetic solid phase extraction coupled with multivariate calibration methods. M Taghizade, M Ebrahimi, **E. Fooladi**, M Yoosefian

Microchemical Journal 160(2021), 105627

13-A New Spectrophotometric Method for Determination of Tartrazine in Saffron Samples Based on Modified Magnetic Graphene Oxide Nanocomposite

E.Fooladi, M. Ebrahimi, N.Nakhaei, K.Asadi, Journal of Research and Innovation in Food Science and Technology 9 (2021) 4, 389-398

Conferen
ces / Work
shops

Spectrofluorimetric study of enzymic kinetic aldehyde oxidase by multivariate calibration methods. 14th Iranian Seminar of Analytical Chemistry 2005 **(Oral)**.

Molecular recognition of β -cyclodextrin to chiral amino acids based on phenolphthalein as a molecular probe. 14th Iranian Seminar of Analytical Chemistry 2005 **(Poster)**.

Spectrophotometric Determination of selenium(IV) as its Dithizonate Complex after Preconcentration with Cloud Point Extraction. 14th Iranian Seminar of Analytical Chemistry 2005 **(Poster)**.

Spectrofluorometric Determination of Aluminum as its Morin Complex in the Presence of Triton X 100. 14th Iranian Seminar of Analytical Chemistry 2005 **(Poster)**

Analytical Chip Fabrication Made Simple. 14th Iranian Seminar of Analytical Chemistry 2005 **(Poster)**.

Spectrophotometric Determination of Selenium(IV) as its Dithizonate Complex after Preconcentration with Cloud Point Extraction. International Conference on Instrumental Methods of Analysis – Modern Trends and Applications 2005 **(Poster)**.

Analytical Chip Fabrication Made Simple. Methods of Analysis – Modern Trends and Applications 2005 **(Poster)**.

Amperometric Xanthine Oxidase biosensors based on one step electrodeposition of Fe_3O_4 -polyaniline core-shell/pt/chitosan nanocomposite modified carbon past electrode. 19th Iranian Seminar of Analytical Chemistry, 2013 **(Poster)**

A novel laccase biosensor based on Fe_3O_4 -polyaniline core-shell/chitosan-laccase oxidize biocomposite, 19th Iranian Seminar of Analytical Chemistry, 2013 **(Oral)**

A New Amperometric Benzaldehyde Biosensor Based on Aldehyde Oxidase Immobilized on Fe_3O_4 -GrapheneOxide/Polyvinylpyrrolidone/Polyaniline

Name..... CV, Month Day, Year

Nanocomposite.15th International Conference on Electroanalysis (ESEAC) ,2014, sweden (**poster**)

Fabrication of aldehyde oxidase and xanthine oxidase electrochemical biosensors based on Fe₃O₄/GO/CHIT and inhibition studies of purines, perymidines and flavonoides 11th Annual Electrochemistry Seminar of Iran Tarbiat Modares University 18-19 Nov, 2015 (**poster**)

Fabrication of new amperometric biosensor for determination of tartrazine, 13th Annual Electrochemistry Seminar of 2017 (**oral**)

Simultaneous voltametric determination of L-Tryptophan and Tyrosine with the screen printed electrode modified by Fe₃O₄/GOX/COOH, 13th Annual Electrochemistry Seminar of 2017 (**poster**)

Application of Cellulose/Bentonite/MnO₂/CeO₂ nanocomposite as a catalyst for selective oxidation of amines, The 8th International Conference on Advances in Chemistry, Chemical Engineering and polymer, Istanbul, Turkey, 2018, (**poster**).

Simultaneous spectrophotometric determination the residual of Ciprofloxacin, famotidine and tramadol in water samples using solid phase extraction coupled with multivariate calibration methods, **The 8th International Conference on Advances in Chemistry, Chemical Engineering and polymer, Istanbul, Turkey, 2018, (poster).**

Extraction and determination of dasatinib anticancer drug in urine sample using

magnetic solid phase extraction technique based on modified cobalt ferrite/graphene

oxide nanocomposite, **26th Iranian Seminar of Analytical Chemistry, 2019 (poster)**

A new Co_{0.7}Mn_{0.3}Fe₂O₄@GO-EDA nano magnetic adsorbent for solid phase

extraction and determination of dasatinib anticancer drug in urine and blood

samples. **26th Iranian Seminar of Analytical Chemistry, 2019 (poster)**

Synthesis and characterization of novel zero-valent iron based trimetallic supported

on bentonite nanocatalyst and its application in dye reduction **26th Iranian Seminar of Analytical Chemistry, 2019 (poster).**

A novel and efficient nano zero-valent iron based nanocatalyst immobilized on

graphene oxide for dyes reduction. **26th Iranian Seminar of Analytical Chemistry, 2019**

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Books

Teaching and other Experiences

Electrochemical and photometric determination of Antidepressant drugs and Lead, Siva Arivand, Phd student, Islamic Azad University of Mashhad, 2017,

Simultaneous determination of fluoroquinolone drugs in food samples using magnetic nanoparticles functioning with biomolecules, Mohabat Taghizadeh, Phd student, Islamic Azad University of Mashhad, 2018,

Determination of Dasotinib anticancer drug in biological samples using a solid phase extraction method based on modified magnetic nanoparticles, Mahtab Kordian, Master Student, Birjand university, 2018.

Removal of Sunset Yellow and Tartrazine Dyes from Blue Samples Using Bentonite and Oxidized Graphene Substrates, Mahnaz Yahyaieian, Master Student, Birjand university, 2018.

TiO₂ nanoparticles supported on the Fe₃O₄/GO nanocomposite: a novel magnetic nanocatalyst for the synthesis of 2- Aminothiazoles, Ali Rajaei, Master student Payame Noor University, 2017.

Pre-concentration and determination of copper, zinc, iron and manganese from different food samples using polyvinylpyrrolidone modified magnetic graphene oxide nanocomposite prior to flame atomic absorption spectrometry, Mahboobeh Shams Master student Payame Noor University, 2017.

Application of Cellulose/Bentonite/MnO₂/CeO₂ nanocomposite as a catalyst for selective oxidation of amines, Yasaman Mohammad pour, Master student Payame Noor University, 2016.

Synthesis of N-(2-phenanthro[9,10]-imidazol in the presence of mesoporous SBA-15 modified by palladium nanoparticle, Malihe Rajabi, Master student Payame Noor University, 2016.

Synthesis and characterization of 2,4,6-Triarypyridine derivatives catalyzed by cellulose sulfuric acid, Hamedreza Rahmandoust, Master student Payame Noor University, 2016.

Patents:

1-control and optimization of sugar substitutes and production of low calories rock candy (all type) (139750140003001092)

2-Fabrication a new paper sensor for determination of peroxide value in edible oils(139850140003006137)

3-Paper sensor for determination Nitrite in Meat products(139850140003006139)

4- Irreversible thermochromic nanosensor for monitoring the food spoilage(139950140003005901)